

ABSTRACT OF THE DISCLOSURE

A high performance, high capacitance gain, electric connector for data transfer applications. At least eight sequentially positioned elongate contact members are connected in a series of signal pairs. A first signal pair includes a fourth contact member and a fifth contact member. A second signal pair includes a third contact member and a sixth contact member. In addition, a third signal pair comprises a first contact member and a second contact member. Finally, a seventh and an eighth contact member are in a fourth signal pair. One member of each contact member pair is configured differently from the other member of the pair, the respective contact members being oriented relative to one another such that they substantially remain in generally parallel planes, but define non-parallel paths. Each of the third and fifth contact members mounts a plate-like extension oriented in a first direction and in respective planes generally parallel to one another. Each pair of extensions are separated by a first dielectric such that a first capacitor is formed. Furthermore, each of the fourth and sixth contact members mounts a plate-like extension oriented in a second direction and also in respective planes generally parallel to one another. Each pair of extensions are likewise separated by a second dielectric such that a second capacitor is formed. Each contact of each contact member pair has a plug engaging portion and a board engaging portion, the plurality of contact members having a selected shape, being arranged relative to one another, and being housed collectively by a dielectric casing so as to minimize crosstalk during data transfer.